

## Battaglia, Frank

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**From:** Battaglia, Frank  
**Sent:** Tuesday, October 07, 2014 5:33 PM  
**To:** Lynch, Joanne  
**Cc:** Joseph Guarnaccia; Hellerich, Lucas; Battaglia, Frank  
**Subject:** RE: BASF Cranston - Draft Internal Work Plan for Bench-Scale Testing  
**Attachments:** Bench-Scale Test Work Plan\_Revision\_92614\_AD.PDF

Joe/Joanne, EPA has reviewed the attached revised draft work plan for the bench-scale bioremediation testing and approves this work plan. I look forward to seeing the results of the bench-scale tests.

If you have any questions, please contact me at 617 918-1362.

Frank Battaglia  
617 918-1362

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**From:** Lynch, Joanne [mailto:Joanne.Lynch@aecom.com]  
**Sent:** Friday, September 26, 2014 2:04 PM  
**To:** Battaglia, Frank  
**Cc:** Joseph Guarnaccia; Hellerich, Lucas  
**Subject:** RE: BASF Cranston - Draft Internal Work Plan for Bench-Scale Testing

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Frank –

As we discussed by phone on Wednesday, September 24, 2014, attached is a revised work plan for bench-scale testing on soil and groundwater from the Former Ciba-Geigy Facility in Cranston, RI.

The draft work plan attached describes the bench-tests in more detail as well as the proposed next steps for pilot testing on-site. The bench-scale test will look at two in situ technologies: bioremediation by both aerobic and anaerobic degradation pathways. The bench-scale test will be used to assess which of the bioremediation technologies is most efficient at enhancing the degradation of the Site contaminants and limiting the mass flux leaving the Site. These results will be used to design a pilot-scale test.

Please do not hesitate to contact me if you have any questions or comments.

Best regards,  
Joanne

**Joanne M. Lynch**  
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**From:** Lynch, Joanne  
**Sent:** Tuesday, September 09, 2014 8:53 AM  
**To:** Frank Battaglia  
**Cc:** Joseph Guarnaccia; Hellerich, Lucas ([Lucas.Hellerich@aecom.com](mailto:Lucas.Hellerich@aecom.com))  
**Subject:** BASF Cranston - Draft Internal Work Plan for Bench-Scale Testing

Frank –



As we discussed yesterday by phone, we are planning to mobilize to the field Thursday 9/11 and part of the day Friday 9/12 to complete bench-scale sample collection, pre-design investigation borings, and a Class III topographic survey (1 ft elevation contours to support the soil cap design).

BASF is proceeding with a bench-scale study to use Site soil and groundwater to test various *in situ* technologies that would be appropriate to treat groundwater COCs at the Former Ciba-Geigy Facility at 180 Mill St, Cranston, RI. Attached is a brief, internal work plan that was put together to outline the work and the locations for sample collection. A technical memorandum will be produced at the end of bench testing to support the most appropriate *in situ* technology.

Meantime, I hope that we can work toward finalizing the CMS and moving through the public comment period with you.

Let me know if you have any questions or comments. Thanks in advance,  
Joanne

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